

Listing of the claims:

1. (Currently Amended) ~~A balloon catheter for insertion into a blood vessel in which a plurality of lumens extending along an axis are formed in one catheter body, and two expandable balloons expand toward outside with respect to the catheter body are arranged axially in parallel,~~

a device for infusion therapy comprising:

a balloon catheter;

a guide wire to be inserted into a guide lumen of the balloon catheter;

pulsation detection means for detecting pulsation of the heart; and

stroke means for causing said guide wire to stroke in synchronization with the pulsation of the heart based on a detection signal of the pulsation detection means.

wherein said balloon catheter is a balloon catheter for insertion into a blood vessel in which a plurality of lumens extending along an axis are formed in one catheter body, and two expandable balloons expand toward outside with respect to the catheter body are arranged axially in parallel,

characterized in that said plurality of lumens comprises:

an infusion lumen that has an infusion hole communicating with an outside of the catheter body between said two balloons, and can supply drugs, cells, a treatment instrument, or the like to the outside of the catheter body through said infusion hole;

balloon lumens that communicate with insides of said two balloons to control expansion of said balloons;

a bypass lumen that communicates with the outside of the catheter body in each position distal and proximal, which is outside of said two balloons with respect to a tip of the catheter body, and bypasses an occluded area formed by the two balloons to allow blood flow; and

a guide lumen into which a guide wire that guides the catheter body to a target position is inserted

said guide lumen communicates with the outside of the catheter body

in each position distal and proximal, which is outside of said two balloons to also serve as said bypass lumen.

2. (Currently Amended) ~~A balloon catheter~~ A device for infusion therapy according to claim 1, characterized in that one balloon lumen communicates with the insides of said two balloons.

3. (Cancelled).

4. (Currently Amended) ~~A balloon catheter according to any one of claims 1 to 3, characterized in that said balloon catheter~~ A device for infusion therapy according to claim 1, characterized in that said device is a catheter for insertion into a coronary vein.

5. (Cancelled).